In re Application of:

Chien et al.

Application No.: 10/705,791

Filed: November 10, 2003

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PATENT

Attorney Docket No.: ST-UCSD3230-1

(formerly 041673-1202)

Amendments to the Claims:

Please cancel Claim 23. Claim 18 is amended. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-17. (Cancelled).

18. (Currently Amended) A method for treating heart failure associated with the <u>a</u> loss of cardiac muscle contractility associated with heart failure comprising:

delivering an expression construct to myocytes therein, wherein the expression construct provides an expressible polynucleotide encoding a phospholamban molecule having a single point mutation consisting of S16E or a double point mutation consisting of K3ER14E, wherein expression of the polynucleotide accelerates SERCA2 mediated calcium ion transport in the treated myocytes to improve cardiac muscle contractility <u>by diminishing phospholamban</u> inhibition of SERCA2 activity.

- 19. (Previously Presented) The method according to claim 18, wherein the expression construct is a viral vector.
 - 20. (Cancelled).
 - 21. (Cancelled).
 - 22. (Cancelled).
 - 23. (Cancelled)
- 24. (Previously Presented) The method according to claim 19, wherein the viral vector is a DNA vector.

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- 25. (Withdrawn). The method as in claim 18, wherein the coding sequence is RNA.
- 26. (Withdrawn) A method for treatment of heart failure comprising:

delivery of a DNA construct to heart comprising a coding sequence for an antisense phospholamaban RNA wherein transcription of the coding sequence is controlled by a promoter functional in heart and the antisense phospholamban RNA increases cardiac contractility or cardiac relaxation.

- 27. (Withdrawn) The method as in claim 26, wherein the coding sequence is delivered using a viral vector.
- 28. (Withdrawn) The method as in claim 26, wherein the coding sequence is delivered by injection into the heart.
- 29. (Withdrawn) The method as in claim 26, wherein the coding sequence is delivered by direct injection into the heart.
- 30. (Withdrawn) The method as in claim 26, wherein the coding sequence is delivered by transcoronary injection into the heart.
 - 31. (Withdrawn) The method as in claim 26, wherein the coding sequence is DNA.
 - 32. (Cancelled)
 - 33. (Cancelled)
 - 34. (Cancelled)
 - 35. (Cancelled)